

AYSU BERK

Assistant Professor
Department of Architecture
Faculty of Art, Design and Architecture
Bilkent University, Ankara, Turkey

EDUCATION

Ph.D. in Architecture, University of Michigan, Ann Arbor, 2012.

Master of Science in Civil Engineering, Middle East Technical University, Ankara, 2006.

Master of Science in Architecture, Middle East Technical University, Ankara, 2005.

Bachelor of Science in Civil Engineering, Middle East Technical University, Ankara, 2003.

ACADEMIC EMPLOYMENT

Assistant Professor, Department of Architecture, Bilkent University, 2017 - ongoing

Instructor, Department of Architecture, Bilkent University, 2013 - 2017

Teaching Assistant, Taubman College of Architecture and Urban Planning (TCAUP), University of Michigan, 2008-2012

Research Assistant, Taubman College of Architecture and Urban Planning (TCAUP), University of Michigan, 2006-2012

PROFESSIONAL EMPLOYMENT

Acarlar Construction Inc., Bulgaria Highway Construction Project, Ankara, 2005

Gama Holding, Qatar Embassy and Residence Project, Ankara, 2002

Ahsele Construction, Bag-kur Headquarter Building Project, Ankara, 2001

ARTICLES IN REFEREED JOURNALS

Berk A., Giles H. "Quadrilateral Panelization of Freeform Surface Structures", **Automation in Construction**. Vol. 76, 36-44, April 2017.

Yanmaz A.M., Caner A., and Berk A. "Renovation of a Safety-Inspection Methodology for River Bridges", **Journal of Performance of Constructed Facilities, ASCE**, Vol.21, No:5, 382-389, 2007.

CONFERENCE PRESENTATIONS AND REFEREED PROCEEDINGS

Berk A. and Örmecioglu, H.T. "A Framework for Evaluation and Assessment of Proto-modern Bridges" in Istanbul Bridge Conference, Istanbul, Turkey. August 11-13, 2014.

Giles H. and Berk A. "Discretization Solutions for the Construction of Free Form Complex Surface Structures" in International Conference on Structures and Architecture, Guimaraes. July 24-26, 2013.

Giles H. and Berk A. "Complex Surface Construction using Planar Quadrilateral Meshing" in IABSE-IASS Symposium, London, United Kingdom. September 20-23, 2011.

Örmecioglu, H.T. and Berk A. "An Inspection Method for Assessment of Proto-Modern Road Bridges" in IABSE-IASS Symposium, London, United Kingdom. September 20-23, 2011.

Berk A. and Ünay A.I. "Teaching Structures to Architecture Students: Examples from Bridge Design" in International Conference on Structures and Architecture, Guimaraes, Portugal. July 21-23, 2010.

Berk A., Örmecioglu H.T., and Akan A.E. "Cumhuriyet Donemi Tarihi Karayolu Koprulerinin Korunmasinda Bir Secim Yontemi Denemesi" in 2nd Symposium on Strengthening and Preserving Historical Buildings and Cultural Heritage, Diyarbakir, Turkey. October 15-17, 2009.

Caner A., Yanmaz A.M., and Berk A. "Remarks on Development of a Safety-Inspection Algorithm for River Bridges" in 7th International Congress on Advances in Civil Engineering, Yildiz Technical University, Istanbul, Turkey. October 11-13, 2006.

INVITED LECTURES AND TALKS

"Thinking Structures", Guest Lecturer for Arch201, Department of Architecture, Middle East Technical University, Ankara, October, 2017

"Structure and Structural Systems", Guest Lecturer for Arch202, Department of Architecture, Bilkent University, Ankara, April 2017.

"Quadrilateral Panelization of Freeform Surface Structures", Faculty of Art, Design and Architecture, Bilkent University, Ankara, March 2017,

"Architectural Geometry", Faculty Lecture Series - Spring2014, Bilkent University, Ankara, March 2014.

OTHER PUBLICATIONS

Ph.D. Dissertation

"A Structural Basis for Surface Discretization of Free Form Surfaces: Integration of Geometry, Materials and Fabrication." December2012, University of Michigan, Ann Arbor, MI

M.Sc. Theses

"Development of a Safety-Inspection Methodology for River Bridges." July2006. METU, Ankara.

"Geometrical Analysis of Bridge Forms and Their Feasibility in Structural Design." May2005. METU. Ankara.

THESIS SUPERVISED

M.S. in Arch Theses

Berin Barut, thesis subject not determined, 9/17 – expected graduation: 6/19

Münevver Duygu Gökoğlu, thesis subject not determined, 9/17 – expected graduation: 6/19

AWARDS/HONORS/GRANTS

Shen Milsom Wilke Scholarship, University of Michigan, Fall 2012

U-M Graduate Teaching Certificate, University of Michigan, Winter 2012

Architecture Merit Award, University of Michigan, Winter 2009

Rackham Graduate Student Assistant Fellowship, University of Michigan, 2006 – 2008

MEMBERSHIP

Turkish Association for Bridge & Structural Engineering, 2017

Building Technology Educators' Society (BTES), 2014- present

International Association of Shell and Spatial Structures (IASS), 2011 – present

Turkish Chamber of Civil Engineers (TMMOB İnşaat Mühendisleri Odası), 2003-present.